

# KAMARAJ COLLEGE (Autonomous)

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(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

(4 Pages)

Reg. No:.....

Question Code: 26E01308

Course Code: 24PEZ041

PG Degree - End Semester Examinations, April 2026

Fourth Semester

M.Sc., ZOOLOGY

Aquaculture

(For those who joined in July 2024 onwards)

Time : 3Hours

Maximum: 75 Marks

## PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer:

- CO:1 1. Name the major metahaline culture practiced in India \_\_\_\_\_.  
K:1 (a) Finfish culture (b) Oyster farming  
(c) Prawn culture (d) Pearl culture
- CO:2 2. Recall the ideal dissolved oxygen (DO) level for fish culture is  
K:1 \_\_\_\_\_.  
(a) 1-2 mg/L (b) 2-3 mg/L  
(c) 5-8 mg/L (d) above 15 mg/L
- CO:1 3. Name the hormone commonly used for induced breeding of  
K:1 fishes is \_\_\_\_\_.  
(a) Insulin (b) Thyroxine  
(c) Cortisol (d) Pituitary gland extract
- CO:2 4. Live feeds are mainly used for feeding \_\_\_\_\_.  
K:2 (a) Adult fishes (b) Brood fishes  
(c) Fish larvae and fry (d) Carnivorous fishes only
- CO:1 5. Which shrimp species is most commonly cultured in Indian  
K:1 hatcheries?  
(a) *Penaeus indicus* (b) *Penaeus monodon*  
(c) *Macrobrachium* (d) *Metapenaeus dobsoni*  
*rosenbergii*

- CO:1 6. Which culture method is commonly used for pearl oysters?  
K:1 (a) Pen culture (b) Raft culture  
(c) Cage culture (d) Bottom culture
- CO:1 7. Which one of the following causes White spot disease  
K:1 (*Ichthyophthiriasis*)?  
(a) Virus (b) Bacteria  
(c) Fungus (d) Protozoan
- CO:2 8. Find the organism which is mainly affected by Viral  
K:1 hemorrhagic septicemia \_\_\_\_\_.  
(a) Shell fish (b) Freshwater and marine  
fishes  
(c) Crustaceans (d) Brackish water fishes
- CO:1 9. Which of the following fish shows viviparity?  
K:1 (a) Rohu (b) Catla  
(c) Shark (d) Mrigal
- CO:2 10. In which of the following habitat CIBA focuses on research?  
K:3 (a) Cold water fisheries (b) Marine capture fisheries  
(c) Brackish water (d) Pearl culture  
aquaculture

**PART - B (5 X 5 = 25 Marks)**

**Answer ALL Questions choosing either (a) or (b).**

**Answer should not exceed 250 words.**

- CO:3 11. (a) Discover the major freshwater aquaculture practices  
K:4 followed in India.

**(OR)**

(b) Examine the importance of controlling parasites, predators and weeds in aquaculture practices.

- CO:3 12. (a) Analyze the methods of procurement of fish seed from  
K:4 natural resources.

**(OR)**

(b) Classify fish feeds and explain each category briefly with examples.

- CO:3 13. (a) Discover the economic importance of lobster.  
K:4

**(OR)**

(b) Categorize the types of seaweeds and their methods of culture.

CO:2 14. (a) Identify the major viral diseases of fish and shrimp.

K:3 (OR)

(b) Describe the important protozoan diseases affecting fish and shrimp in aquaculture.

CO:3 15. (a) Analyze the oviparous, viviparous and ovoviviparous reproduction in animals with suitable examples.

K:4

(OR)

(b) Discover the functions and contributions of Central Aquaculture Research Institutes in improving fish and shell fish production.

**PART - C (5 X 8 = 40 Marks)**

**Answer ALL Questions choosing either (a) or (b).**

**Answer should not exceed 600 words.**

CO:4 16. (a) Analyze the importance of different types of fish ponds in successful fish culture.

K:4

(OR)

(b) Examine the water quality management for a freshwater fish culture system.

CO:3 17. (a) Analyze in detail the hatchery technology for major carps and freshwater prawn.

K:4

(OR)

(b) Examine the process of artificial breeding in fish under controlled conditions.

CO:5 18. (a) Discuss the various components of a shrimp hatchery system.

K:6

(OR)

(b) Predict the techniques involved in pearl oyster culture.

CO:4 19. (a) Explain the bacterial and fungal diseases affecting fish and shrimp.

K:5

(OR)

(b) Explain the causes, diagnosis, prevention and control of non-infectious, environmental and nutritional diseases.

CO:5 20. (a) Elaborate the different types of ornamental fishes. Add an  
K:6 account of their breeding behavior and biology.

**(OR)**

(b) Discuss in detail the setting up of a freshwater aquarium and the measures adopted for its proper maintenance.